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What is claimed is:

1	1. A method of designing a web application comprising:		
2	designing a set of components, each component having a set of instances;		
3	designing an application having references to the set of components;		
4	designing an interface having references to the application; and		
5	building the application based on the interface and the designing of the		
6	application.		
1	2. The method of claim 1 wherein:		
2	each components has a set of instances, each instance having a set of attributes		
3	related to use of the instance.		
1	3. The method of claim 2 wherein:		
2	the attributes relate to a locale and a specified identity of a user.		
1	4. The method of claim 1 further comprising:		
2	customizing the application based on local preferences.		
1	5. The method of claim 1 further comprising:		
2	customizing the application based on client preferences.		

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- 6. An apparatus comprising:
- 2 a output composition processor;
- a services manager coupled to the output composition processor and coupled to
- 4 a repository, the services manager to access the repository in response to requests
- 5 from the output composition processor and to provide data from the repository to the
- 6 output composition processor;
  - a state engine coupled to the output composition processor, the state engine to
- 8 traverse state machines provided from the output composition processor; and
- a security engine coupled to the output composition processor, the security
  - engine to process requests for access and either grant or deny the requests based on
  - security of the data from the repository and validation data provided from a user and
  - wherein the output composition processor to respond to requests from a client by
  - executing an application.

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1	7. A machine-readable medium embodying instructions for execution by a
2	processor, which, when executed by a processor, cause the processor to perform a
3	method, the method comprising:
4	receiving a request for a web-based application:

receiving a request for a web-based application;

accessing the web-based application:

accessing a set of objects related to the web-based application within a repository; and

executing the web-based application including the set of objects in a manner including interaction with a requestor originating the request for the web-based application.

8. The machine-readable medium of claim 7 further embodying instructions which, when executed by a processor, cause the processor to perform the method wherein:

receiving the request includes receiving a set of attributes including information specific to the request for the web-based application;

executing the web-based application includes managing a state machine through a state engine and allowing or denying state transitions based on security levels; and accessing the set of objects includes determining which instances of each object of the set of objects match the set of attributes of the request.

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1	9. A method of providing a web-based application comprising:
2	receiving a request for a web-based application;
3	accessing the web-based application;
4	accessing a set of objects related to the web-based application within a
5	repository; and
6	executing the web-based application including the set of objects in a manner
7	including interaction with a requestor originating the request for the web-based
8	application.

## 10. The method of claim 9 wherein:

receiving the request includes receiving a set of attributes including information specific to the request for the web-based application;

executing the web-based application includes managing a state machine through a state engine and allowing or denying state transitions based on security levels; and accessing the set of objects includes determining which instances of each object of the set of objects match the set of attributes of the request.

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11. An	apparatus	comprising:

- 2 receiving means for receiving a request for a web-based application;
- first accessing means for accessing the web-based application;
- second accessing means for accessing a set of objects related to the web-based application within a repository; and
  - executing means for executing the web-based application including the set of objects including means for interacting with a requestor originating the request for the web-based application received by the receiving means, the executing means coupled to the receiving means, the executing means, the executing means coupled to the first accessing means, the executing means coupled to the second accessing means.

## 12. An apparatus comprising:

- a first logic block to receive a request for a web-based application;
- a second logic block to access the web-based application from a repository;
- a third logic block to access a set of objects related to the web-based application within the repository; and
- a fourth logic block to execute the web-based application including the set of objects in a manner including interaction with a requestor originating the request for the web-based application.